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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,989	03/26/2004	David H. Griesinger	11336-699 (P2056US US3C)	9646
Susan D. Reinecke BRINKS HOFER GILSON & LIONE P.O. Box 10395			EXAMINER	
			SUTHERS, DOUGLAS JOHN	
Chicago, IL 60			ART UNIT	PAPER NUMBER
			2615	
			MAIL DATE	DELIVERY MODE
			05/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Summary	10/810,989	GRIESINGER, DAVID H.			
Office Action Summary	Examiner	Art Unit			
The MAN INC DATE of this communication and	Douglas Suthers	2615			
The MAILING DATE of this communication app Period for Reply	lears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period value - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin vill apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>21 February 2007</u> .					
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	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ☐ Claim(s) 1-42 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-42 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.				
Application Papers		·			
9) The specification is objected to by the Examine					
10) $igtimes$ The drawing(s) filed on <u>26 March 2004</u> is/are: a) $igtimes$ accepted or b) $igcap$ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
		·			
Attachment(s)					
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail D				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 11/01/06. 	P	Patent Application (PTO-152)			

Application/Control Number: 10/810,989

Art Unit: 2615

DETAILED ACTION

- 1. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2615.
- 2. Claims 41-42 have been added. Claims 1-42 are pending and are addressed in this office action.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claims 1, 17, 24-28, 31, and 34-40 recite, "determining a direction of the power". It is unclear how a power can have a direction. Power, in this case assumed to mean air pressure, is a scalar value, that exists at each point in the sound field (three directional space). Also the direction has no reference point the examiners best assumption is that

Application/Control Number: 10/810,989

Art Unit: 2615

it is to mean determining the direction of the sound events from the users current position, which could be anywhere in space.

- 6. Claims 1, 17, 24-28, 31, and 34-40 recite the phrase "channel pair" and "channel pairs" followed by "comprising multiple audio channels". It is unclear what this is intended to mean. Perhaps "consisting of a pair of audio channels" is intended.

 Currently it is not clear if a "channel pair" is referring to exactly two channels or two groups of channels.
- 7. Claims 1, 17, 24-28, 31, and 34-40 recite, "determining whether a sound field is intended for production in one channel pair". The term "sound field" is known to one of ordinary skill in the art as a "region containing sound waves". It is unclear what is intended by the claim, given the statement "determining whether a region is intended for production in one channel pair" makes no sense.

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 9. Claims 26, 27, and 38-40 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
- 10. Regarding claims 38-40, an electromagnetic signal does not constitute statutory subject matter.

Application/Control Number: 10/810,989

Art Unit: 2615

11 Regarding claims 26-27, the claims pertain an apparatus comprising only of logic, which is an abstract idea and thus does not constitute statutory subject matter.

Conclusion

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Douglas Suthers whose telephone number is (571)272-0563. The examiner can normally be reached on 8am - 5pm.

Page 5

Application/Control Number: 10/810,989

Art Unit: 2615

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on (571)272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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